

Fig. 1 Prior Art

	<b>Flowgate</b>	<b>A</b>	<b>B</b>	<b>C</b>
<b>Bus</b>				
1		0.70	0.30	0.30
2		0.80	0.20	0.20
3		0.90	0.10	0.10
4		0.60	0.40	0.40
5		0.60	-0.60	0.40
6		0.50	-0.50	0.50
7		0.55	-0.55	0.45
8		0.20	-0.20	-0.20
9		0.05	-0.05	-0.05
10		-0.01	0.01	0.01
11		0.00	0.00	0.00
12		-0.05	0.05	0.05

**Fig. 2 Prior Art**

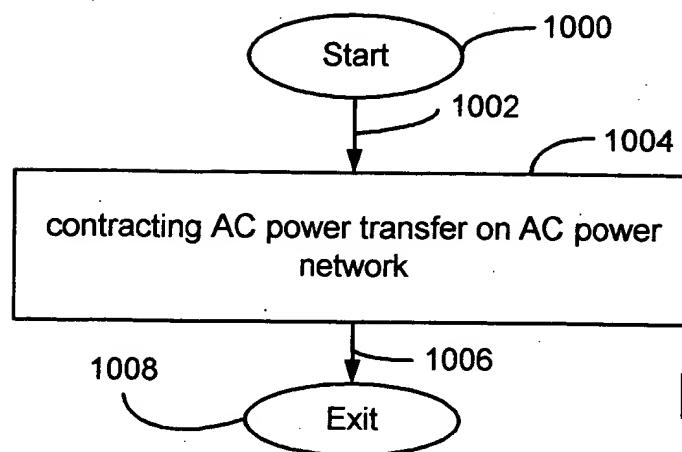


Fig. 3

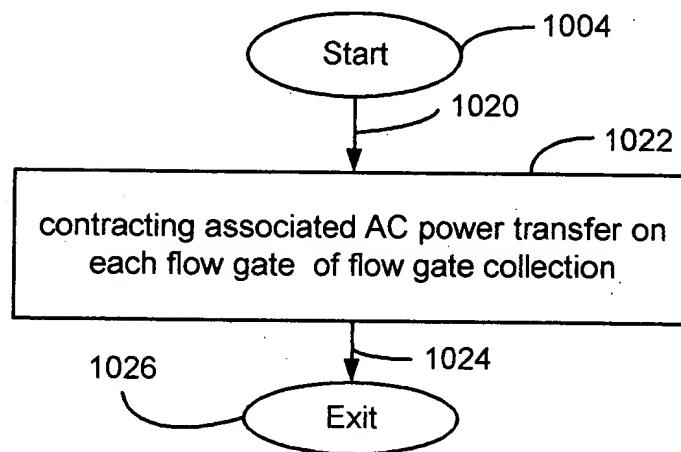


Fig. 4

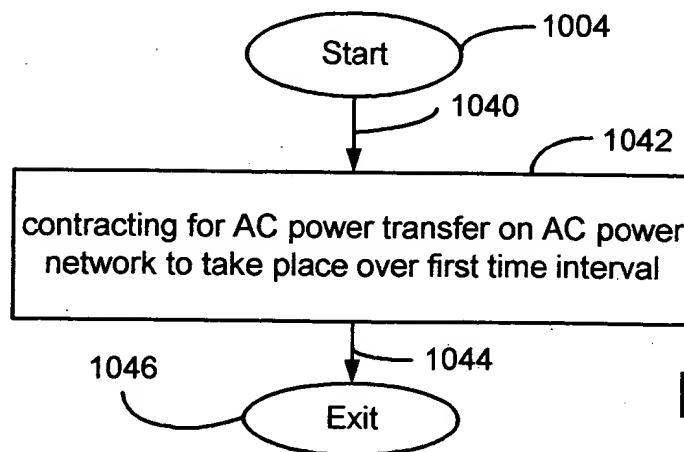


Fig. 5

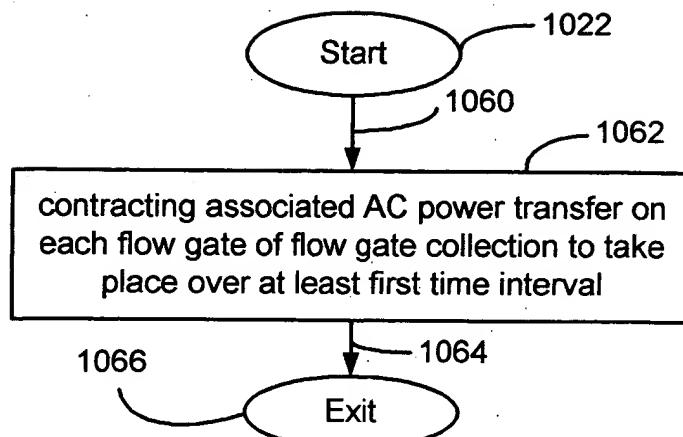


Fig. 6

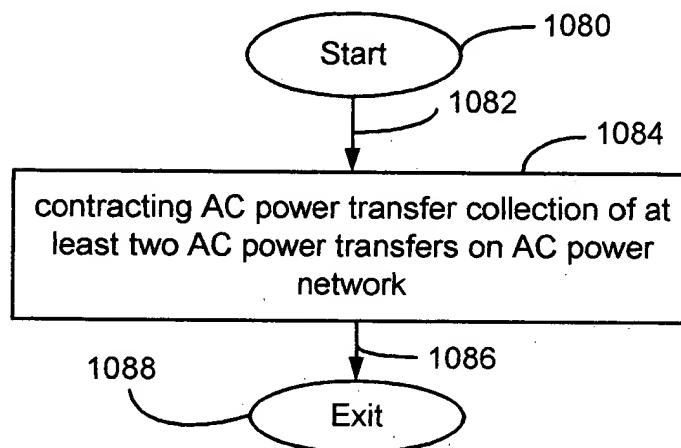


Fig. 7

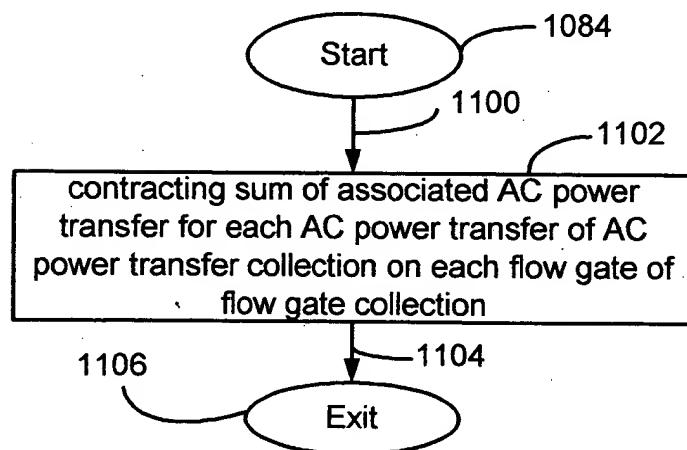


Fig. 8

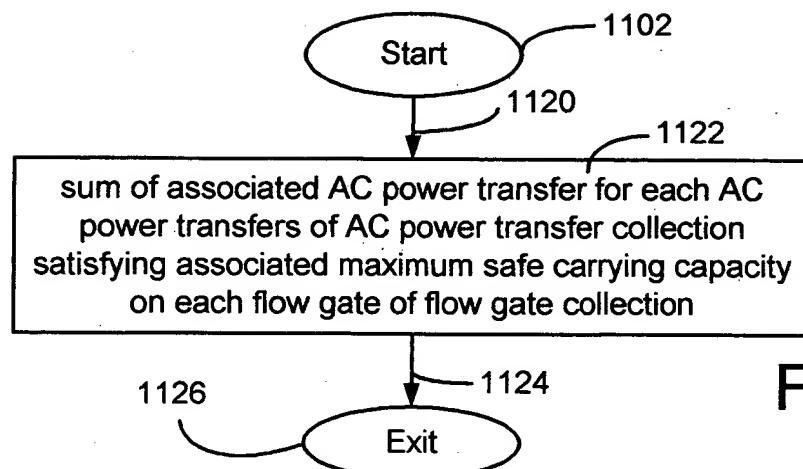


Fig. 9

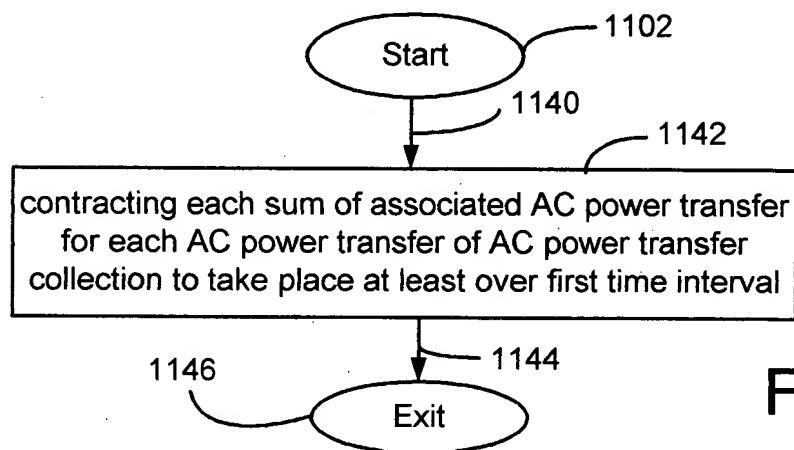


Fig. 10

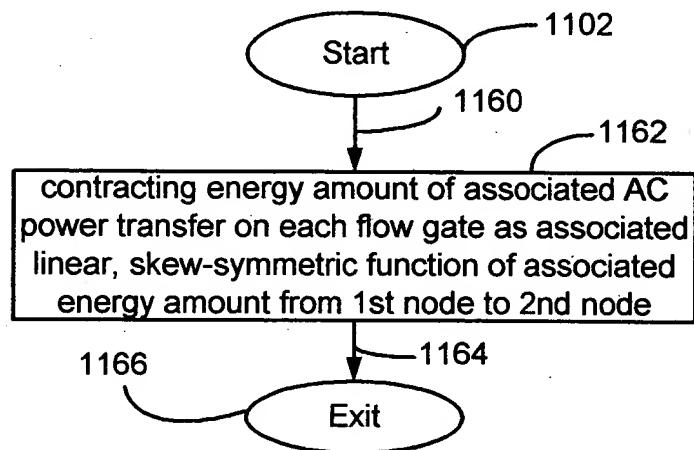


Fig. 11

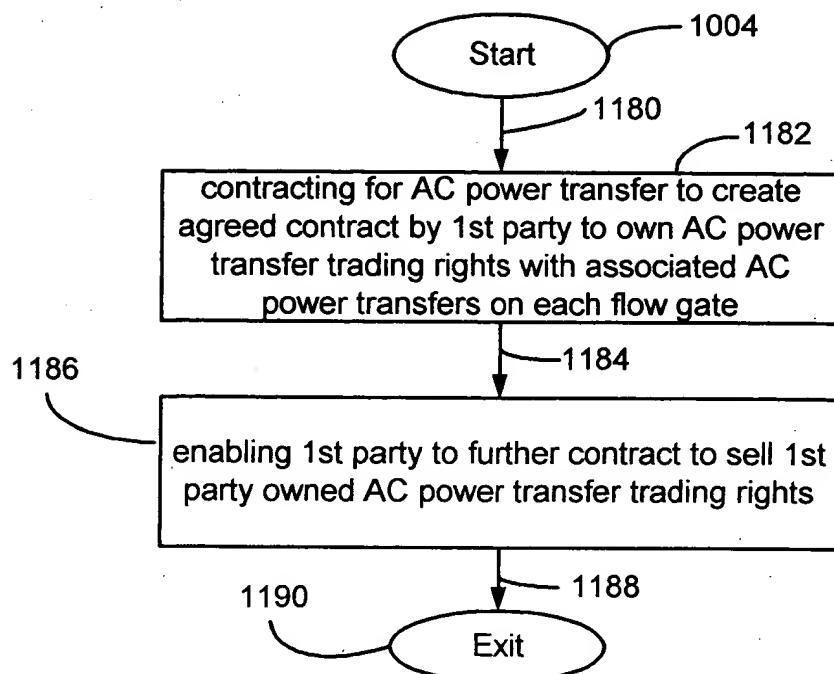


Fig. 12

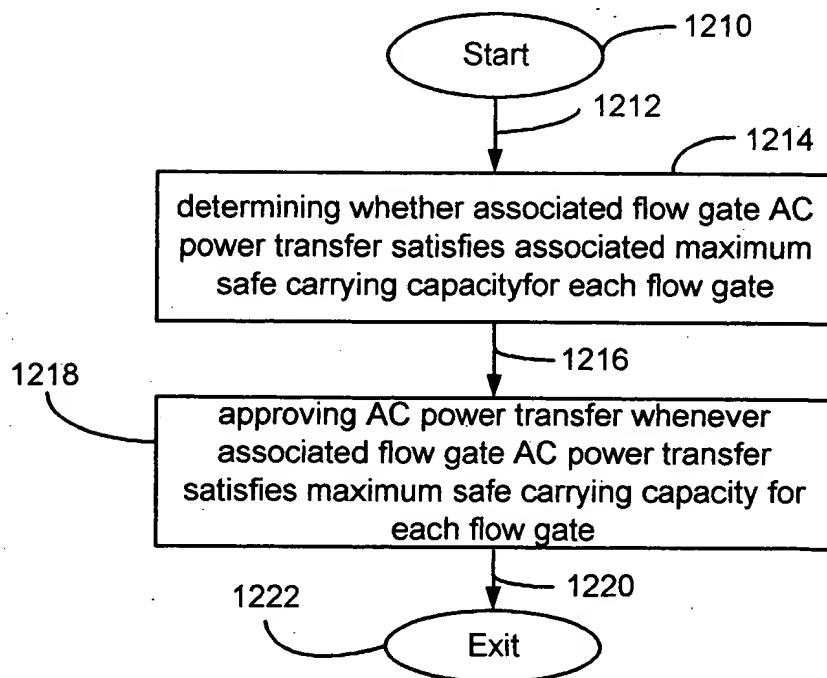


Fig. 13

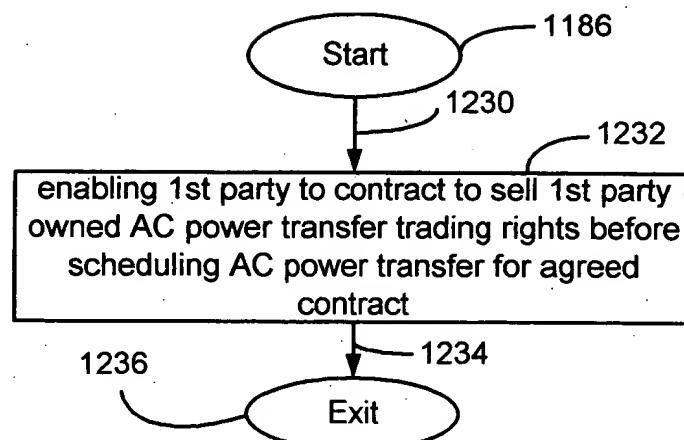


Fig. 14

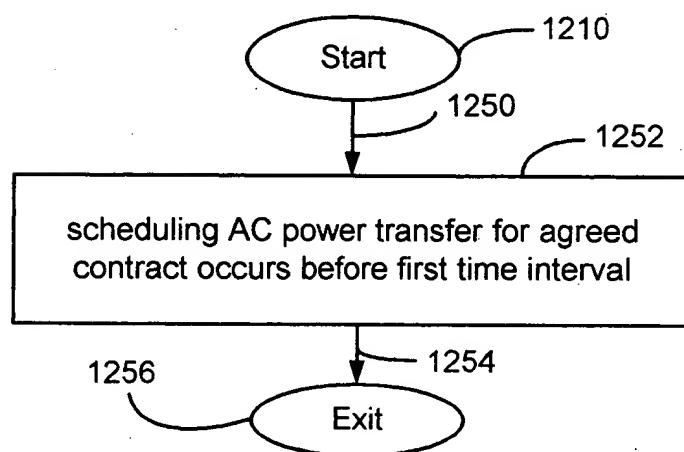


Fig. 15

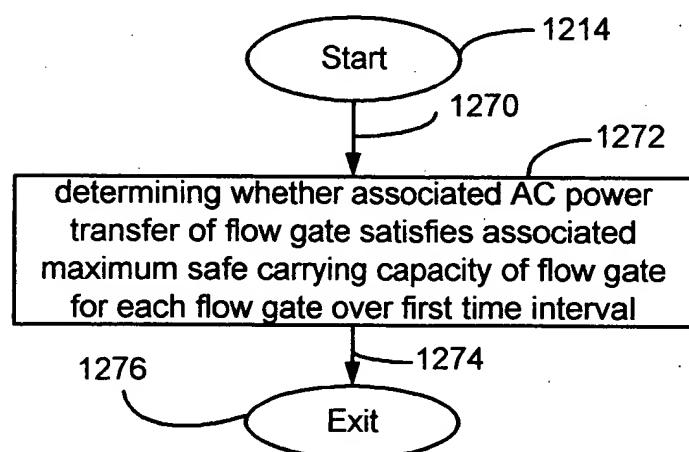


Fig. 16

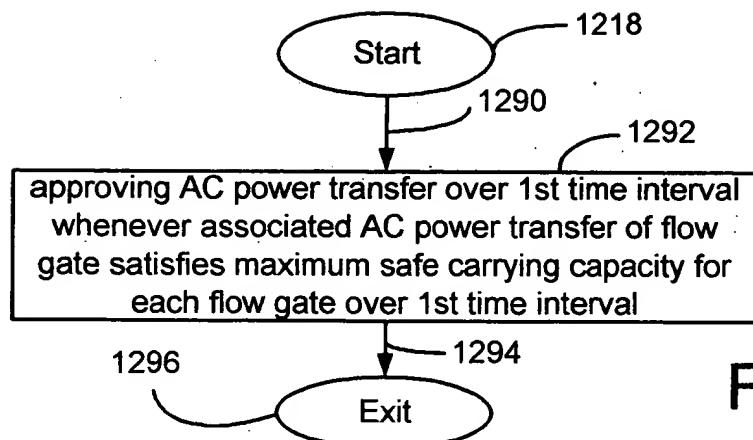


Fig. 17

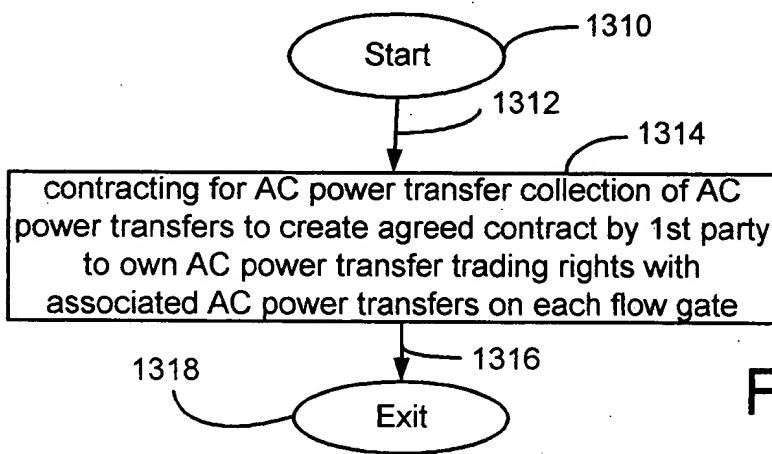


Fig. 18

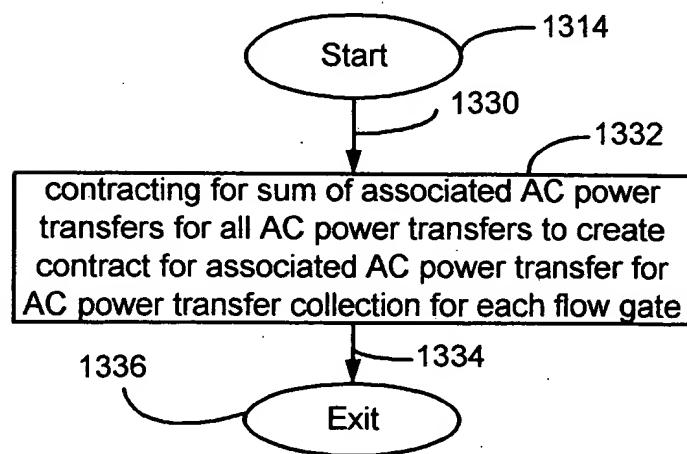
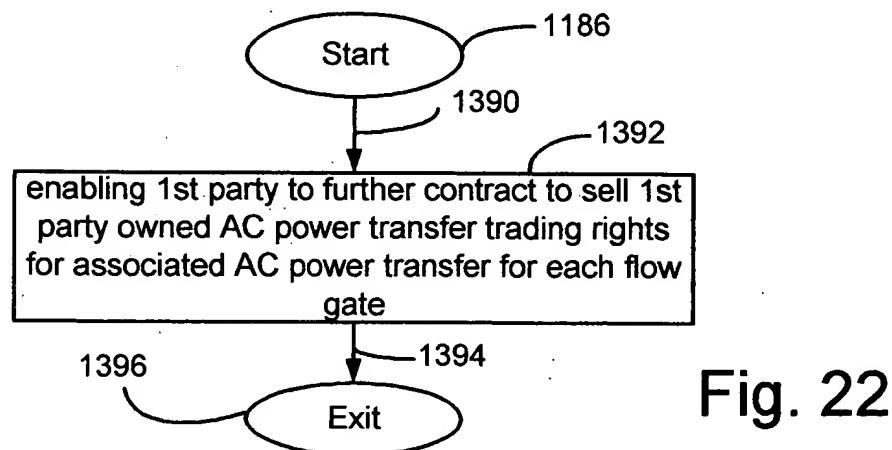
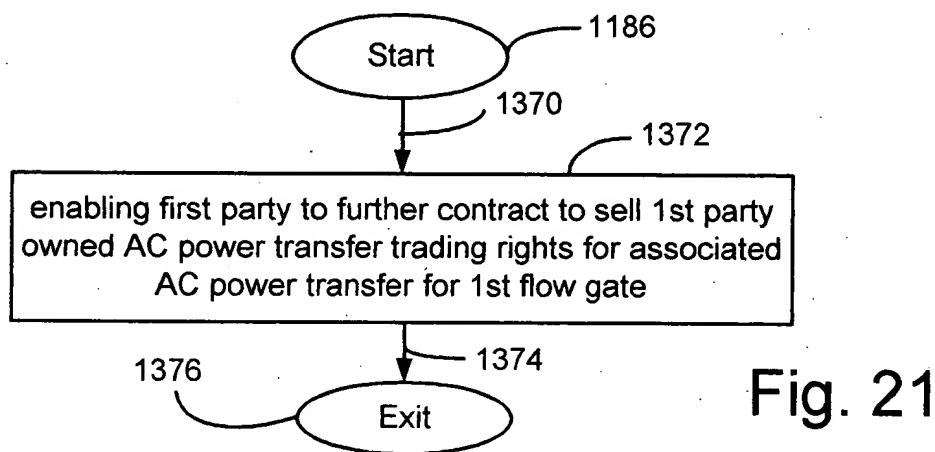
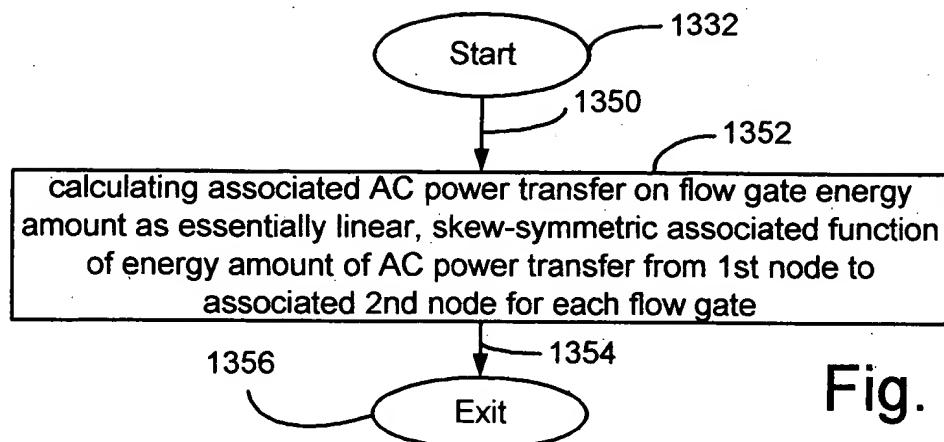


Fig. 19



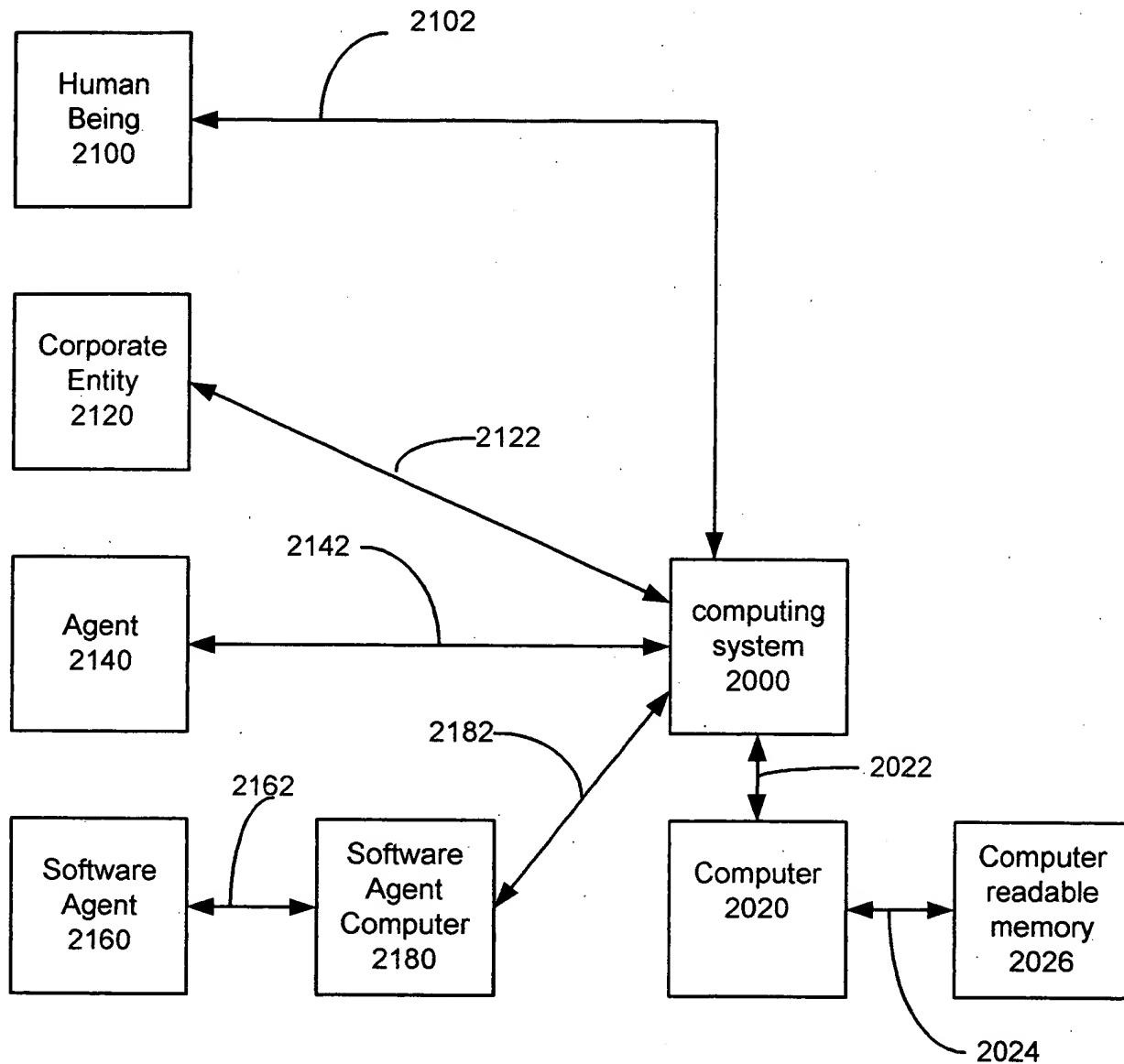
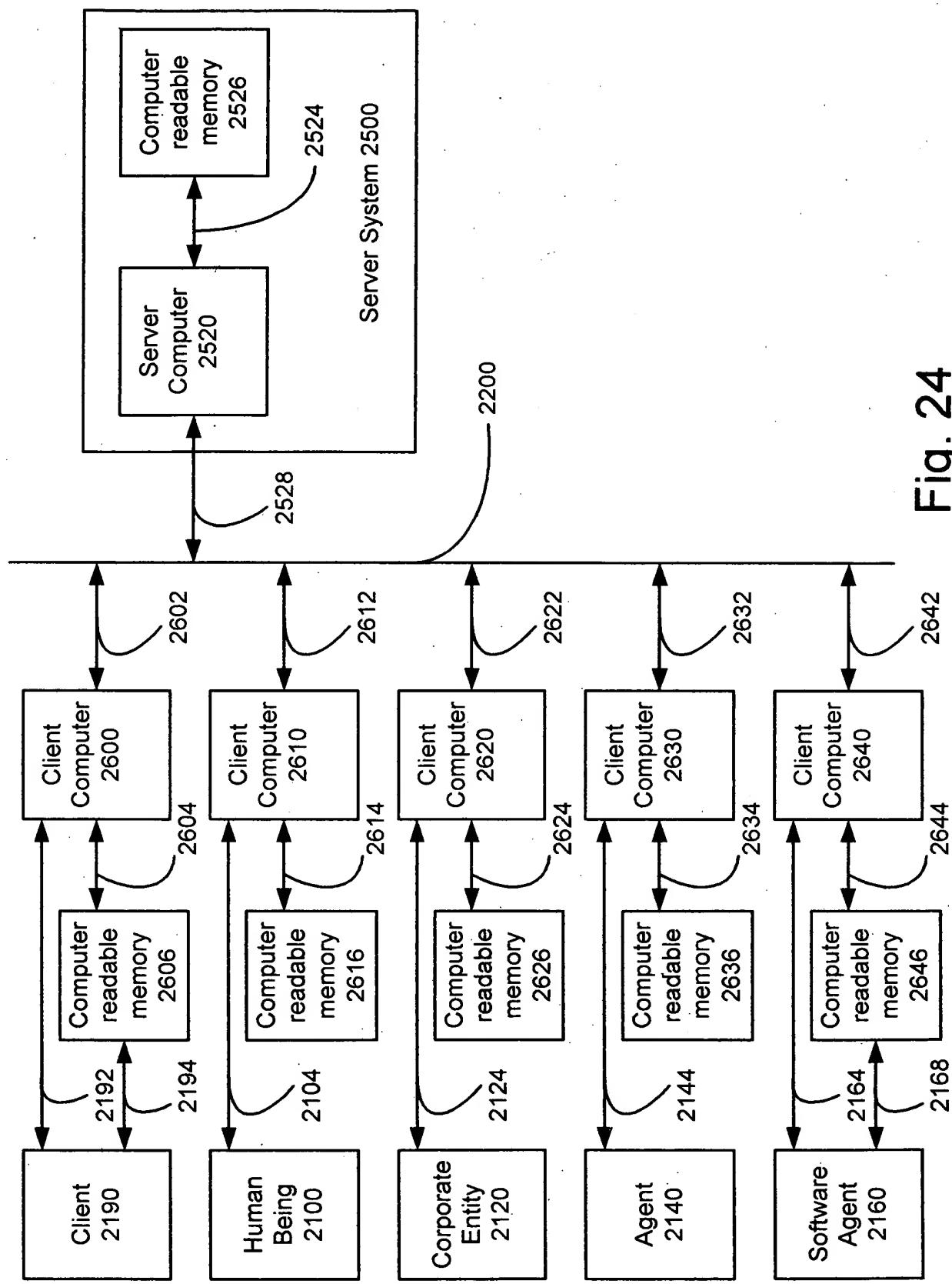


Fig. 23

**Fig. 24**



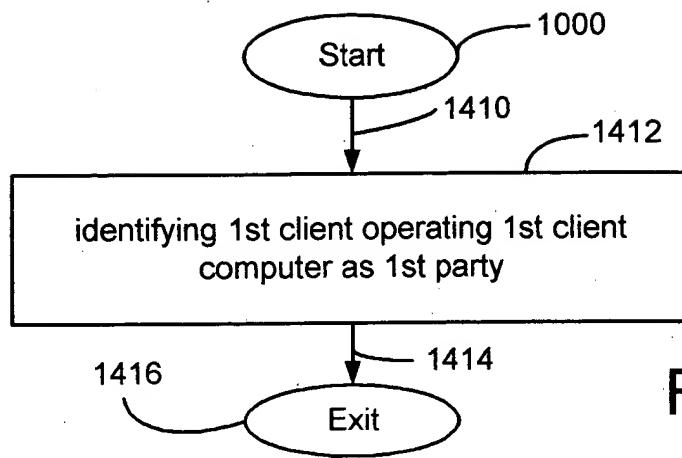


Fig. 25A

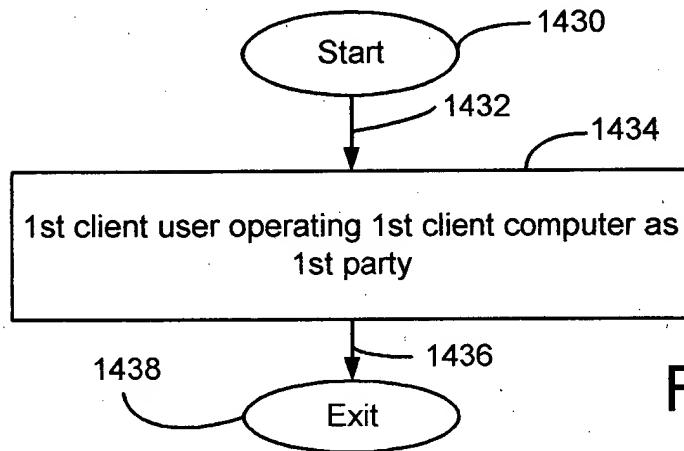


Fig. 25B

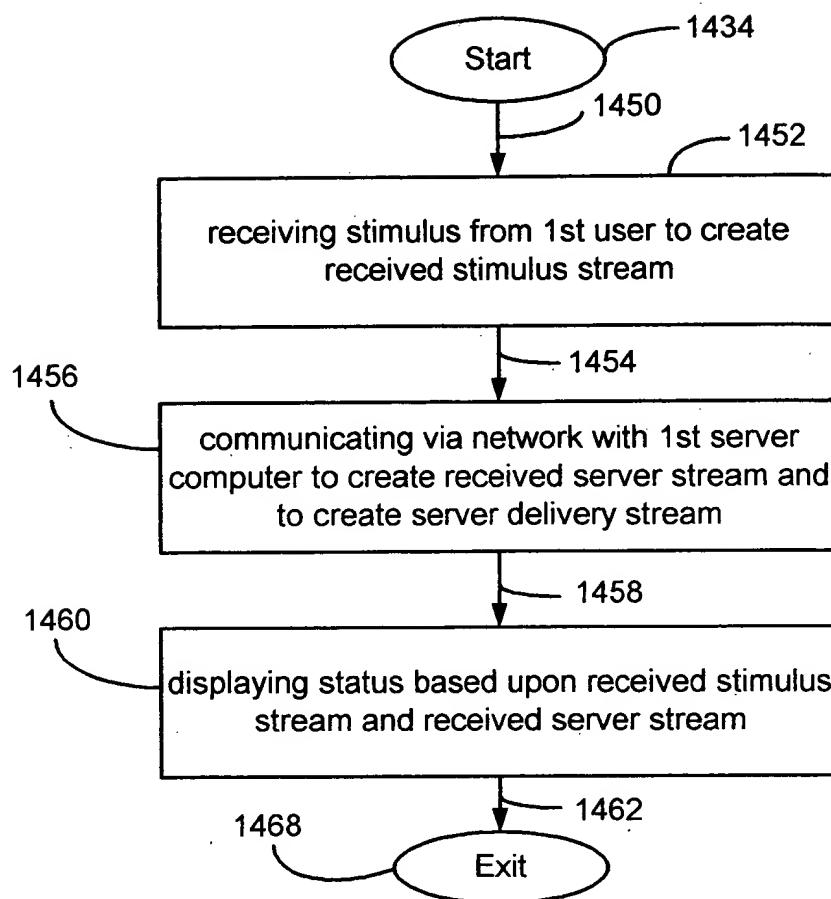


Fig. 26

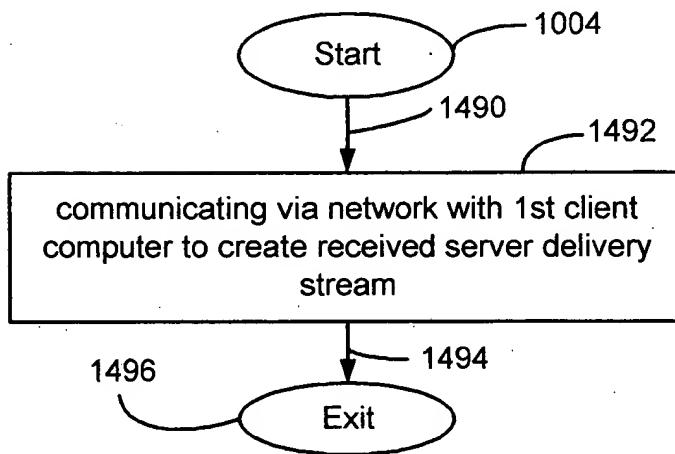


Fig. 27

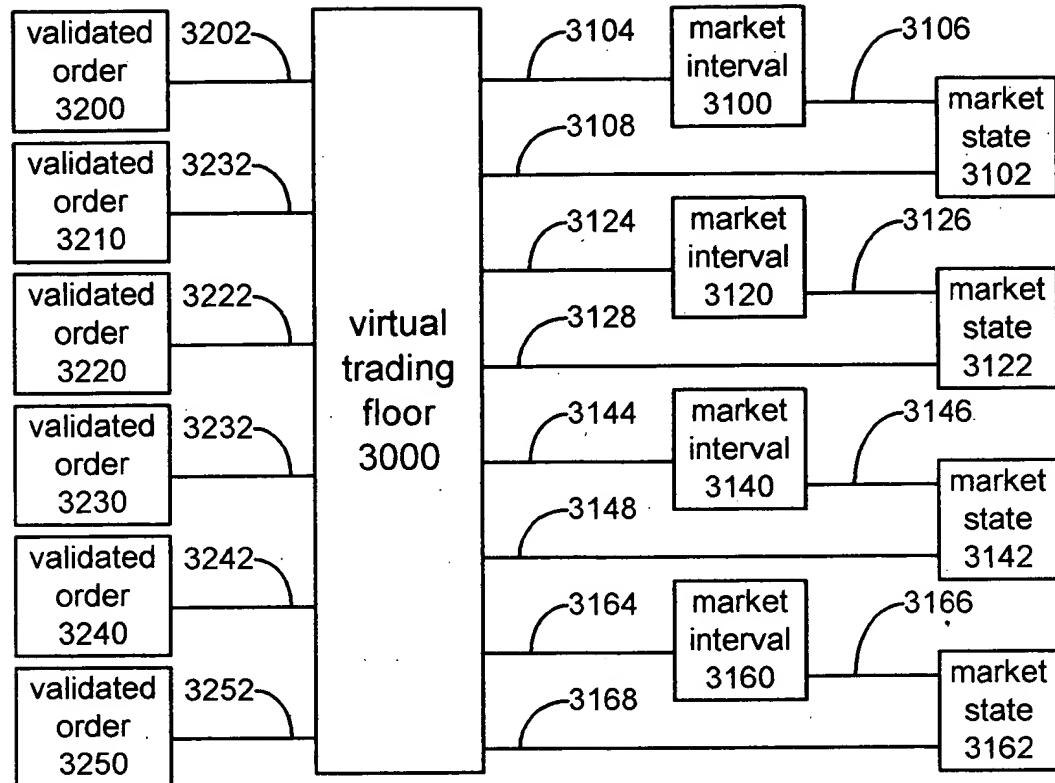


Fig. 28

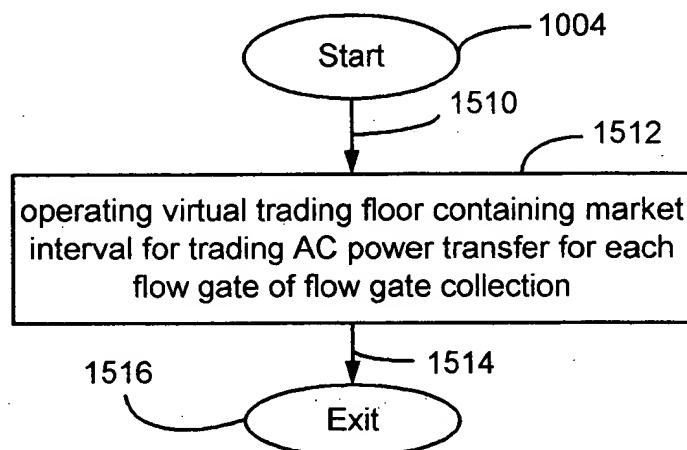


Fig. 29

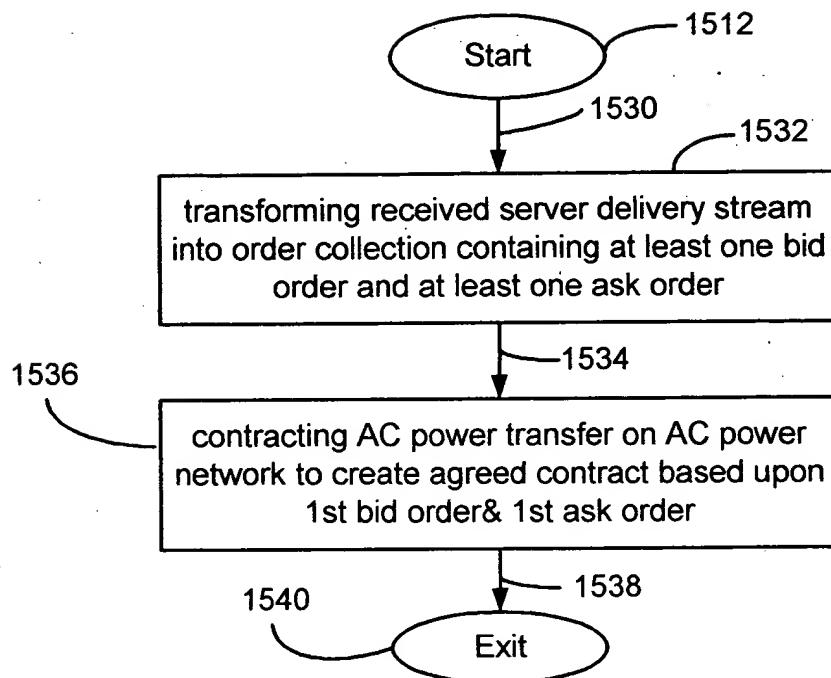


Fig. 30

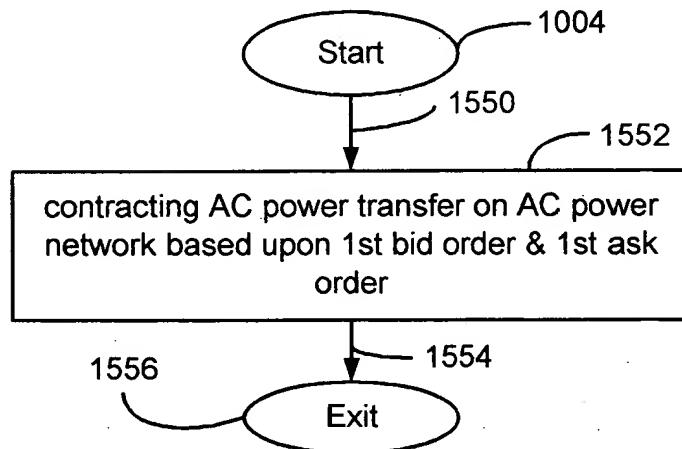


Fig. 31

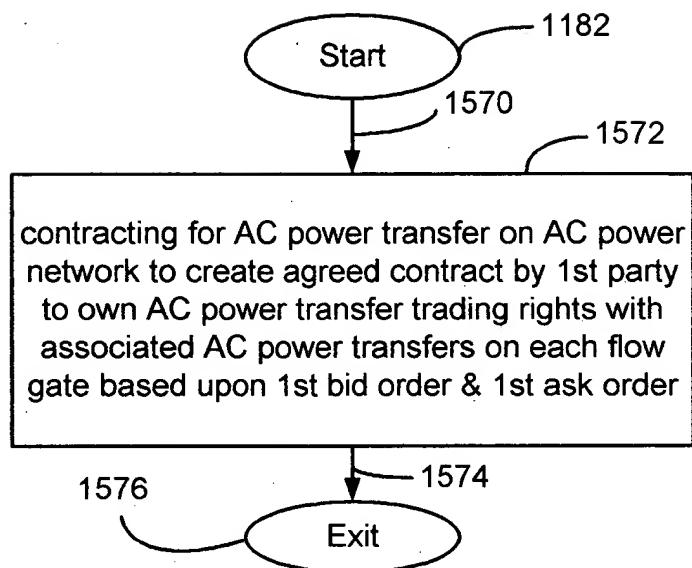


Fig. 32

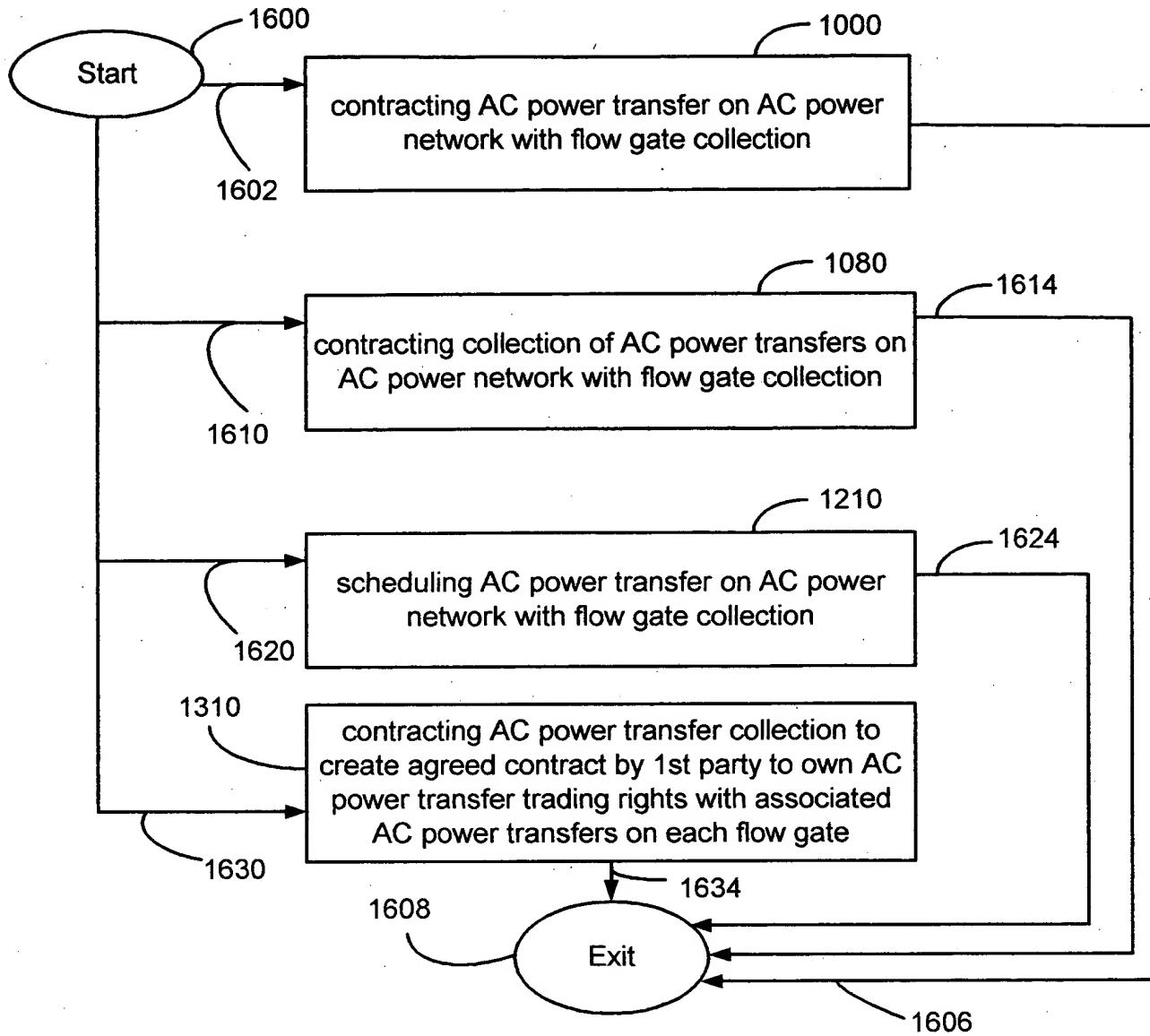


Fig. 33A

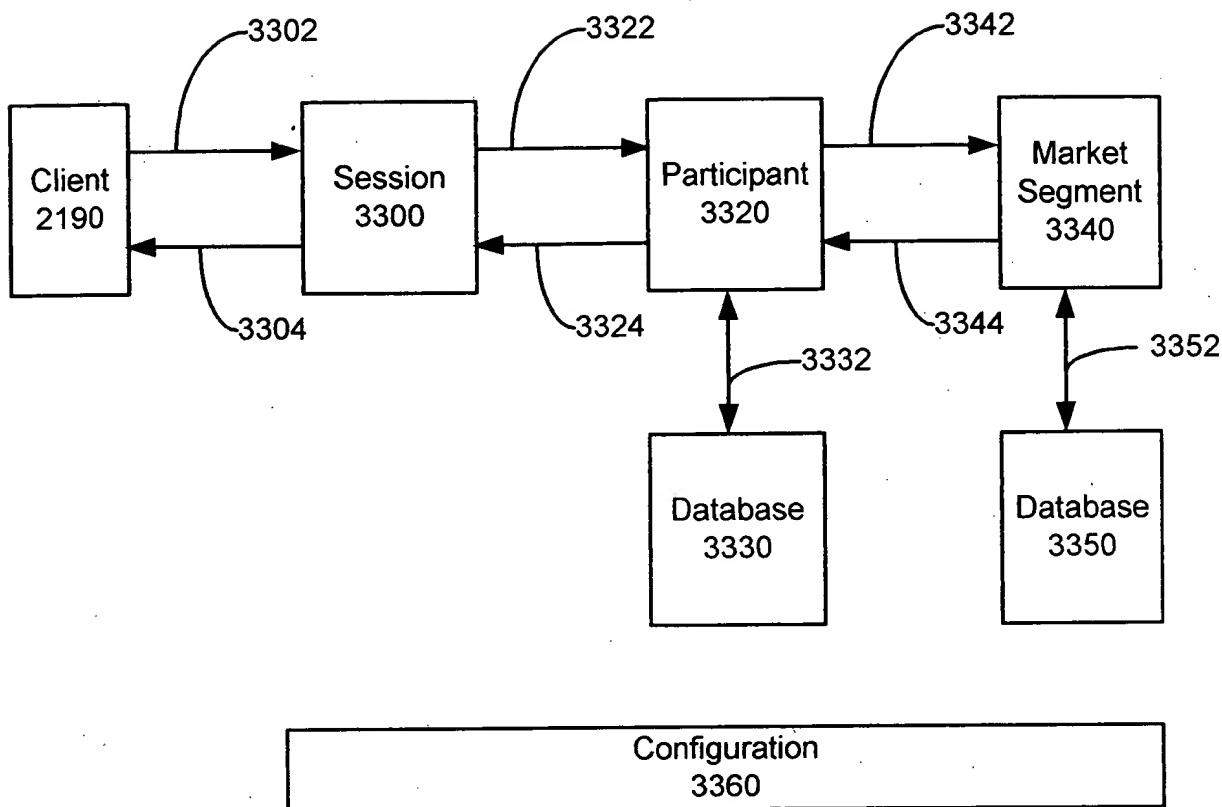


Fig. 33B

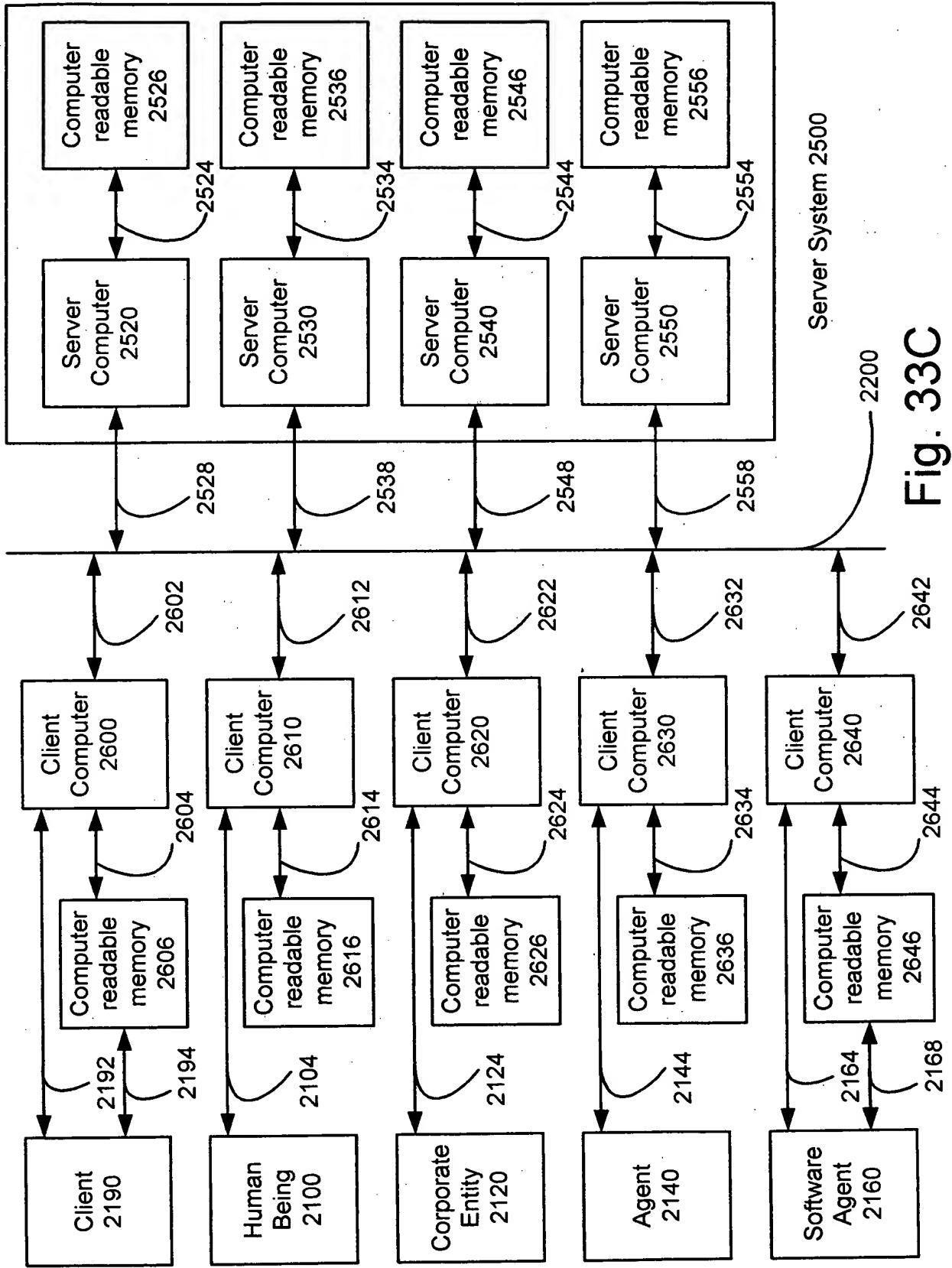


Fig. 33C

4000

APX Market Window (TM) (Generation Resources (Participant Sale))

File Edit View Order Message Tools Window Help

		Generation		GMM		Order Options													
						Unit COCOPP_7 Unit 1 ▼		Order Options											
				Sell APX Zone Illinois ▼		<input type="checkbox"/> At Market <input checked="" type="radio"/> Limit													
				Commodity Hourly Energy ▼		<input type="checkbox"/> Use Withdraw Date & Time													
				Display Options		<input type="checkbox"/> Display order summary when submitting order(s)													
				MW's of Total Only ▼		<input type="checkbox"/> Display warning for orders outside native zone													
				Market Depth Highest Bid & Lowest Ask ▼		<input type="checkbox"/> Min & Max Order Allowed													
				<input type="checkbox"/> Local Time (GMT-05:00) Eastern Time ▼		<input type="checkbox"/> Only order in round lot multiple of 25 MW													
				<input type="checkbox"/> Generation Curve															
Generation		November 1998																	
		Sun 1 8 15 22 29	Mon 2 9 16 23 30	Tue 3 10 17 24	Wed 4 11 18 25	Thu 5 12 19 26	Fri 6 13 20 27	Sat 7 14 21 28											
Load		11/10/98		< >		11/11/98													
Transfer In																			
Transfer Out		Market Time	Market Price	Contracted Position	Pending Position	Total Position	Highest Bid	Highest Bid	Lowest Ask	Lowest Ask	New Order	Limit Price	Limit Range						
		Hour (\$/MWh)	(Net MW)	(NetMW)	(Net MW)	Quantity	Price	Quantity	Price	Quantity	(Net MW)	(\$/MW)	MWh						
Import	Ending (ST)																		
Export	1	14.54	0.00	0.00	0.00														
	2	12.17	0.00	0.00	0.00	36.59	11.20	35.99	12.43	—	—	—	—						
Transmission	3	12.96	12.00	13.00	25.00	26.98	11.71	38.84	14.21	25.00	20.00	Or More							
	4	14.45	12.00	13.00	25.00	32.41	12.99	40.76	15.40	25.00	20.00	Or More							
Initiate Bilateral	5	18.17	12.00	13.00	25.00	39.55	17.61	29.77	18.76	25.00	20.00	Or More							
	6	19.91	12.00	13.00	25.00	45.61	18.02	25.56	20.54	25.00	20.00	Or More							
Confirm Bilateral	7	22.31	25.00	0.00	25.00	40.33	20.89	34.16	23.17	25.00	20.00	Or More							
	8	22.42	25.00	0.00	25.00	50.94	22.39	43.08	24.12	25.00	20.00	Or More							
Portfolio Manager	9	23.47	25.00	0.00	25.00	59.49	22.40	40.09	25.28	25.00	20.00	Or More							
	10	24.05	25.00	0.00	25.00	61.26	24.05	46.29	25.28	25.00	20.00	Or More							
Orders	11	24.17	25.00	0.00	25.00	26.94	24.17	50.06	24.71	25.00	20.00	Or More							
	12	23.73	25.00	0.00	25.00	26.85	23.73	45.69	26.09	25.00	20.00	Or More							
Graphs	13	23.30	25.00	0.00	25.00	35.01	23.19	46.22	25.39	25.00	20.00	Or More							
	14	21.26	25.00	0.00	25.00	51.60	20.62	42.48	25.39	25.00	20.00	Or More							
Market Depth	15	22.37	25.00	0.00	25.00	56.34	21.99	44.09	24.04	25.00	20.00	Or More							
	16	22.53	25.00	0.00	25.00	53.21	22.05	40.71	24.19	25.00	20.00	Or More							
	17	22.75	25.00	0.00	25.00	28.80	21.40	42.38	23.75	25.00	20.00	Or More							
	18	23.80	25.00	0.00	25.00	48.05	23.58	40.24	25.05	25.00	20.00	Or More							
	19	24.75	25.00	0.00	25.00	38.89	24.05	34.85	26.81	25.00	20.00	Or More							
	20	24.98	25.00	0.00	25.00	38.48	24.93	37.47	26.37	25.00	20.00	Or More							
	21	24.07	25.00	0.00	25.00	31.43	23.64	31.10	25.47	25.00	20.00	Or More							
	22	21.12	25.00	0.00	25.00	40.56	21.07	43.59	23.98	25.00	20.00	Or More							
	23	19.83	12.00	0.00	25.00	43.24	17.75	31.24	21.01	25.00	20.00	Or More							
	24	17.06	12.00	0.00	25.00	41.08	15.27	33.41	19.29	25.00	20.00	Or More							
	Submit	Withdraw	Summary													Save	Refresh		

Fig. 34

# APX Market Window (TM) (Generation Resources (Participant Sale))

File Edit View Order Message Tools Window Help

Generation

Load

Transfer In

Transfer Out

GMM

Import

Time

Export

Day

Day Ending

Trans-

mission

11/07/1998

Saturday

23.46

Market

Contracted

Pending

Total

Position

Position

Highest

Highest

Bid

Bid

New

Lowest

Order

Ask

Price

Quantity

(\$/MWh)

(NetMW)

(\$/MWh)

(NetMW)

(\$/MWh)

Load

Transfer In

Transfer Out

Import

Time

Export

Day

Day Ending

Trans-

mission

11/07/1998

Saturday

23.46

Market

Contracted

Pending

Total

Position

Position

Highest

Highest

Bid

Bid

New

Lowest

Order

Ask

Price

Quantity

(\$/MWh)

(NetMW)

Load

Transfer In

Transfer Out

Import

Time

Export

Day

Day Ending

Trans-

mission

11/07/1998

Saturday

23.46

Market

Contracted

Pending

Total

Position

Position

Highest

Highest

Bid

Bid

New

Lowest

Order

Ask

Price

Quantity

(\$/MWh)

(NetMW)

Load

Transfer In

Transfer Out

Import

Time

Export

Day

Day Ending

Trans-

mission

11/07/1998

Saturday

23.46

Market

Contracted

Pending

Total

Position

Position

Highest

Highest

Bid

Bid

New

Lowest

Order

Ask

Price

Quantity

(\$/MWh)

(NetMW)

Load

Transfer In

Transfer Out

Import

Time

Export

Day

Day Ending

Trans-

mission

11/07/1998

Saturday

23.46

Market

Contracted

Pending

Total

Position

Position

Highest

Highest

Bid

Bid

New

Lowest

Order

Ask

Price

Quantity

(\$/MWh)

(NetMW)

Load

Transfer In

Transfer Out

Import

Time

Export

Day

Day Ending

Trans-

mission

11/07/1998

Saturday

23.46

Market

Contracted

Pending

Total

Position

Position

Highest

Highest

Bid

Bid

New

Lowest

Order

Ask

Price

Quantity

(\$/MWh)

(NetMW)

Load

Transfer In

Transfer Out

Import

Time

Export

Day

Day Ending

Trans-

mission

11/07/1998

Saturday

23.46

Market

Contracted

Pending

Total

Position

Position

Highest

Highest

Bid

Bid

New

Lowest

Order

Ask

</div

4200

## APX Market Window (TM) (Flowgate Trading)

File Edit View Order Message Tools Window Help

4202

May 1999						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					
5/10/99		◀	▶	5/10/99		

Flowgate  
CommodityCOCOPP\_7\_Unit 1  
Hourly Flowgate

## Order Options

At Market  Limit  
 Use Withdraw Date & Time  
 Display order summary when  
 submitting order(s)  
 Display warning for orders  
 outside native zone  
 Only order in round lot  
 multiple of 25 MW

## Display Options

Market Depth   
 Min & Max Order Allowed  
 Local Time (GMT-00:00) GMT Time

Market Time Hour	Contracted Price (\$/MWh)	Pending Position (Net MW)	Total Position (NetMW)	New Order Position (NetMW)	Limit Price (\$/MWh)	Limit Range	N0CA->SoCA Contracted Flow (Net MW)	N0CA->SoCA Pending Flow (Net MW)	N0CA->SoCA Total Flow (Net MW)
Ending (DT)									
1	0.00	0.00	0.00	0.00			0.00	0.00	0.00
2	0.00	0.00	0.00	0.00			0.00	0.00	0.00
3	0.00	0.00	0.00	0.00			0.00	0.00	0.00
4	0.00	0.00	0.00	0.00			0.00	0.00	0.00
5	0.00	0.00	0.00	0.00			0.00	0.00	0.00
6	0.00	0.00	0.00	0.00			0.00	0.00	0.00
7	0.00	0.00	0.00	0.00			0.00	0.00	0.00
8	0.00	0.00	0.00	0.00			0.00	0.00	0.00
9	0.00	0.00	0.00	0.00			0.00	0.00	0.00
10	0.00	0.00	0.00	0.00			0.00	0.00	0.00
11	0.00	0.00	0.00	0.00			0.00	0.00	0.00
12	0.00	0.00	0.00	0.00			0.00	0.00	0.00
13	0.00	0.00	0.00	0.00			0.00	0.00	0.00
14	0.00	0.00	0.00	0.00			0.00	0.00	0.00
15	0.00	0.00	0.00	0.00			0.00	0.00	0.00
16	0.00	0.00	0.00	0.00			0.00	0.00	0.00
17	0.00	0.00	0.00	0.00			0.00	0.00	0.00
18	0.00	0.00	0.00	0.00			0.00	0.00	0.00
19	0.00	0.00	0.00	0.00			0.00	0.00	0.00
20	0.00	0.00	0.00	0.00			0.00	0.00	0.00
21	0.00	0.00	0.00	0.00			0.00	0.00	0.00
22	0.00	0.00	0.00	0.00			0.00	0.00	0.00
23	0.00	0.00	0.00	0.00			0.00	0.00	0.00
24	0.00	0.00	0.00	0.00			0.00	0.00	0.00

Submit Withdraw Summary

Save

Refresh

Fig. 36